



SEQUENCE LISTING

<110> Glimcher, Laurie H.
Szabo, Susanne, J.

<120> T-BET COMPOSITIONS AND METHODS OF USE THEREOF

<130> HUI-040CP

<140> US 10/008264

<141> 2001-12-03

<150> PCT/US00/15345

<151> 2000-06-01

<150> US 60/137085

<151> 1999-06-02

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<170> PatentIn Ver. 2.0

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<212> DNA

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His Arg Tyr Phe Tyr Pro Glu Pro Gly Ala Gln Asp Ala Asp Glu Arg	
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cgc ggg ggc ggc agc ctg ggg tct ccc tac ccg ggg ggc gcc ttg gtg	192
Arg Gly Gly Gly Ser Leu Gly Ser Pro Tyr Pro Gly Gly Ala Leu Val	
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ccc gcc ccg ccg agc cgc ttc ctt gga gcc tac gcc tac ccg ccg cga	240
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Pro Gln Ala Ala Gly Phe Pro Gly Ala Gly Glu Ser Phe Pro Pro Pro	
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Pro Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro	
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Ala Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Asn Asn His	
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Leu Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr	
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Leu Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val	
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gac cag cac cac tgg cgg tac cag agc ggc aag tgg gtg cag tgt gga	624
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Lys Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp	
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Ser Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly	
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Lys Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln	
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Met Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile	
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Val Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Asn Ala Ser Asn	
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Thr His Ile Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala	
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Tyr Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe	
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gcc aaa gga ttc cgg gag aac ttt gag tcc atg tac aca tct gtt gac	1008
Ala Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Thr Ser Val Asp	
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Thr Ser Ile Pro Ser Pro Pro Gly Pro Asn Cys Gln Phe Leu Gly Gly	
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Asp His Tyr Ser Pro Leu Leu Pro Asn Gln Tyr Pro Val Pro Ser Arg	

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cct gtg gca ccc cag tac cct ccc aag atg ggc ccg gcc agc tgg ttc Pro Val Ala Pro Gln Tyr Pro Pro Lys Met Gly Pro Ala Ser Trp Phe 435 440 445			1344
cgc cct atg cgg act ctg ccc atg gaa ccc ggc cct gga ggc tca gag Arg Pro Met Arg Thr Leu Pro Met Glu Pro Gly Pro Gly Gly Ser Glu 450 455 460			1392
gga cgg gga cca gag gac cag ggt ccc ccc ttg gtg tgg act gag att Gly Arg Gly Pro Glu Asp Gln Gly Pro Pro Leu Val Trp Thr Glu Ile 465 470 475 480			1440
gcc ccc atc cgg ccg gaa tcc agt gat tca gga ctg ggc gaa gga gac Ala Pro Ile Arg Pro Glu Ser Ser Asp Ser Gly Leu Gly Glu Gly Asp 485 490 495			1488
tct aag agg agg cgc gtg tcc ccc tat cct tcc agt ggt gac agc tcc Ser Lys Arg Arg Arg Val Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser 500 505 510			1536
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Arg Gly Gly Gly Ser Leu Gly Ser Pro Tyr Pro Gly Gly Ala Leu Val
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 Pro Gln Ala Ala Gly Phe Pro Gly Ala Gly Glu Ser Phe Pro Pro Pro
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 Ala Asp Ala Glu Gly Tyr Gln Pro Gly Glu Gly Tyr Ala Ala Pro Asp
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 Pro Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro
 115 120 125
 Ala Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Asn Asn His
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 Leu Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr
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 Lys Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly
 165 170 175
 Leu Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val
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 Asp Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly
 195 200 205
 Lys Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp
 210 215 220
 Ser Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly
 225 230 235 240
 Lys Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln
 245 250 255
 Met Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile
 260 265 270
 Val Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Asn Ala Ser Asn
 275 280 285
 Thr His Ile Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala
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 Tyr Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe
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 Ala Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Thr Ser Val Asp
 325 330 335
 Thr Ser Ile Pro Ser Pro Pro Gly Pro Asn Cys Gln Phe Leu Gly Gly
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 Asp His Tyr Ser Pro Leu Leu Pro Asn Gln Tyr Pro Val Pro Ser Arg
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 Tyr Trp Leu Gly Ala Pro Arg Asp His Ser Tyr Glu Ala Glu Phe Arg
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 Met Ser Tyr Tyr Arg Gly Gln Glu Val Leu Ala Pro Gly Ala Gly Trp
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 Pro Val Ala Pro Gln Tyr Pro Pro Lys Met Gly Pro Ala Ser Trp Phe
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 Arg Pro Met Arg Thr Leu Pro Met Glu Pro Gly Pro Gly Gly Ser Glu
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 Gly Arg Gly Pro Glu Asp Gln Gly Pro Pro Leu Val Trp Thr Glu Ile
 465 470 475 480
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 485 490 495
 Ser Lys Arg Arg Arg Val Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser
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 Pro Met Pro Ser Asp Glu Gly Arg Gly Pro Gly Ala Asp Gln Gln His
 20 25 30
 cgt ttc ttc tat ccc gag ccg ggc gca cag gac ccg acc gat cgc cgc 144
 Arg Phe Phe Tyr Pro Glu Pro Gly Ala Gln Asp Pro Thr Asp Arg Arg
 35 40 45
 gca ggt agc agc ctg ggg acg ccc tac tct ggg ggc gcc ctg gtg cct 192
 Ala Gly Ser Ser Leu Gly Thr Pro Tyr Ser Gly Gly Ala Leu Val Pro
 50 55 60
 gcc gcg ccg ggt cgc ttc ctt gga tcc ttc gcc tac ccg ccc cgg gct 240

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Gly	Ala	Glu	Gly	Tyr	Pro	Pro	Val	Asp	Gly	Tyr	Pro	Ala	Pro	Asp	Pro		
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Gln	Gly	Arg	Arg	Met	Phe	Pro	Phe	Leu	Ser	Phe	Thr	Val	Ala	Gly	Leu		
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Glu	Pro	Thr	Ser	His	Tyr	Arg	Met	Phe	Val	Asp	Val	Val	Leu	Val	Asp		
			180					185					190				
cag	cac	cac	tgg	cgg	tac	cag	agc	ggc	aag	tgg	gtg	cag	tgt	gga	aag		624
Gln	His	His	Trp	Arg	Tyr	Gln	Ser	Gly	Lys	Trp	Val	Gln	Cys	Gly	Lys		
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gca	gaa	ggc	agc	atg	cca	ggg	aac	cgc	tta	tat	gtc	cac	cca	gac	tcc		672
Ala	Glu	Gly	Ser	Met	Pro	Gly	Asn	Arg	Leu	Tyr	Val	His	Pro	Asp	Ser		
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cta	aag	ctc	acc	aac	aac	aag	ggg	gct	tcc	aac	aat	gtg	acc	cag	atg		768
Leu	Lys	Leu	Thr	Asn	Asn	Lys	Gly	Ala	Ser	Asn	Asn	Val	Thr	Gln	Met		
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Ile	Val	Leu	Gln	Ser	Leu	His	Lys	Tyr	Gln	Pro	Arg	Leu	His	Ile	Val		
			260					265					270				
gag	gtg	aat	gat	gga	gag	cca	gag	gct	gcc	tgc	agt	gct	tct	aac	aca		864
Glu	Val	Asn	Asp	Gly	Glu	Pro	Glu	Ala	Ala	Cys	Ser	Ala	Ser	Asn	Thr		
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cac	gtc	ttt	act	ttc	caa	gag	acc	cag	ttc	att	gca	gtg	act	gcc	tac		912
His	Val	Phe	Thr	Phe	Gln	Glu	Thr	Gln	Phe	Ile	Ala	Val	Thr	Ala	Tyr		
	290					295					300						
cag	aac	gca	gag	atc	act	cag	ctg	aaa	atc	gac	aac	aac	ccc	ttt	gcc		960
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Ser Val Pro Ser Pro Pro Gly Pro Asn Cys Gln Leu Leu Gly Gly Asp				
	340	345	350	
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Pro Phe Ser Pro Leu Leu Ser Asn Gln Tyr Pro Val Pro Ser Arg Phe				
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Tyr Pro Asp Leu Pro Gly Gln Pro Lys Asp Met Ile Ser Gln Pro Tyr				
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Trp Leu Gly Thr Pro Arg Glu His Ser Tyr Glu Ala Glu Phe Arg Ala				
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Val Ser Met Lys Pro Thr Leu Leu Pro Ser Ala Pro Gly Pro Thr Val				
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ccc tac tac cgg ggc caa gac gtc ctg gcg cct gga gct ggt tgg ccc				1296
Pro Tyr Tyr Arg Gly Gln Asp Val Leu Ala Pro Gly Ala Gly Trp Pro				
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gtg gcc cct caa tac ccg ccc aag atg agc cca gct ggc tgg ttc cgg				1344
Val Ala Pro Gln Tyr Pro Pro Lys Met Ser Pro Ala Gly Trp Phe Arg				
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Gln Gly Ser Ser Pro Ser Leu Trp Pro Glu Val Thr Ser Leu Gln Pro				
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Glu Pro Ser Asp Ser Gly Leu Gly Glu Gly Asp Thr Lys Arg Arg Arg				
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Ile Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser Ser Pro Ala Gly Ala				
	500	505	510	
cct tct cct ttt gat aag gaa acc gaa ggc cag ttt tat aat tat ttt				1584
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Pro Asn				
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Gln Val Ala Gly Phe Pro Gly Pro Gly Glu Phe Phe Pro Pro Pro Ala
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Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro Ala
  115          120          125

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Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr Lys
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Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly Leu
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Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val Asp
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Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly Lys
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Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly Lys
  225          230          235          240

Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln Met
  245          250          255

Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile Val
  260          265          270

Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Ser Ala Ser Asn Thr
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His Val Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala Tyr
  290          295          300

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 340 345 350
 Pro Phe Ser Pro Leu Leu Ser Asn Gln Tyr Pro Val Pro Ser Arg Phe
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 Tyr Pro Asp Leu Pro Gly Gln Pro Lys Asp Met Ile Ser Gln Pro Tyr
 370 375 380
 Trp Leu Gly Thr Pro Arg Glu His Ser Tyr Glu Ala Glu Phe Arg Ala
 385 390 395 400
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 405 410 415
 Pro Tyr Tyr Arg Gly Gln Asp Val Leu Ala Pro Gly Ala Gly Trp Pro
 420 425 430
 Val Ala Pro Gln Tyr Pro Pro Lys Met Ser Pro Ala Gly Trp Phe Arg
 435 440 445
 Pro Met Arg Thr Leu Pro Met Asp Pro Gly Leu Gly Ser Ser Glu Glu
 450 455 460
 Gln Gly Ser Ser Pro Ser Leu Trp Pro Glu Val Thr Ser Leu Gln Pro
 465 470 475 480
 Glu Pro Ser Asp Ser Gly Leu Gly Glu Gly Asp Thr Lys Arg Arg Arg
 485 490 495
 Ile Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser Ser Pro Ala Gly Ala
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 Pro Ser Pro Phe Asp Lys Glu Thr Glu Gly Gln Phe Tyr Asn Tyr Phe
 515 520 525
 Pro Asn
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